

Data Sheet

We make sure

FUJITSU COMPUTERS
SIEMENS

LIFEBOOK E8420 The expert without compromises

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Fujitsu Siemens Computers is the leading European IT manufacturer. With a strategic focus on innovative mobility and the dynamic data center, we offer a unique range of products and services from notebooks and desktops to servers and IT infrastructure solutions. Famous German engineering and exceptional in-house quality testing capabilities in our test centers ensure extraordinary product quality and reliability across all product lines.

LIFEBOOK E8420

The simple philosophy behind LIFEBOOK E8420: only the best is good enough. It is the ideal choice for performance-oriented office-based users: use state-of-the-art technology and work becomes a pleasure. 15.4-inch WSXGA+ display and an optional NVIDIA graphics card ensure a brilliant display screen and best performance.



More than enough performance

Maximum productivity even for the most demanding of applications thanks to state-of-the-art technology.

- Intel® Centrino® 2 with vPro™ technology, optional high-performance NVIDIA graphics card

Ideal substitute for a desktop

Effective working even for the most demanding of users in all situations.

- 15.4-inch WSXGA+ display, modular bay, optional second 320GB hard drive



Maximum connectivity

Available everywhere - wireless connectivity anytime anywhere, even if there is no hotspot nearby.

- Optional integrated 3G/UMTS, WLAN and Bluetooth

Maximum security

Protect your company data against unauthorized third-party access.

- Benefit from our end-to-end anti-theft concept with system and user protection, such as optional fingerprint sensor, TPM module and SmartCase Logon+



SIERRA WIRELESS
EM POWERED™



Components

Processor	Intel® Core™2 Duo T9600 (2.8 GHz, 6 MB, 1066 MHz) Intel® Core™2 Duo T9550 (2.66 GHz, 6 MB, 1066 MHz) Intel® Core™2 Duo T9400 (2.53 GHz, 6 MB, 1066 MHz) Intel® Core™2 Duo P8700 (2.53 GHz, 3 MB, 1066 MHz) Intel® Core™2 Duo P8600 (2.4 GHz, 3 MB, 1066 MHz) Intel® Core™2 Duo P8400 (2.26 GHz, 3 MB, 1066 MHz)	
Memory modules	2 GB (1 module(s) with 2 GB, DDR3), 1066 MHz 1 GB (1 module(s) with 1 GB, DDR3), 1066 MHz	
Hard disk drives (internal)	320 GB, 5400 rpm, SATA, 2.5-inch S.M.A.R.T. 160 GB, 7200 rpm, SATA, 2.5-inch S.M.A.R.T. 160 GB, 5400 rpm, SATA, 2.5-inch S.M.A.R.T. 160 GB, 5400 rpm, FDE-3, 2.5-inch S.M.A.R.T. 120 GB, 5400 rpm, SATA, 2.5-inch S.M.A.R.T.	
Hard disk notes	ShockSensor for HDD shock protection One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. Accessible capacity may vary, also depending on used software and tool	
Display	15.4-inch TFT 1680 x 1050 pixel (WSXGA+) non-glare display	
WLAN (optional)	Atheros Minicard b/g 802.11 b/g Intel® Wireless WiFi Link 5300 AGN 11/13ch	
UMTS/HSUPA (optional)	Sierra Wireless MC8790 (downlink 7.2 MBit/s, uplink 2.0 MBit/s)	
Modular bay options	2nd battery 2nd hard disk drive DVD Super Multi Weight saver	
Base unit	LIFEBOOK E8420 NVIDIA gfx	LIFEBOOK E8420 Intel gfx
General system information		
Chipset	Intel® PM45, ICH 9-ME	Intel® GM45, ICH 9-ME
BIOS features	BIOS based on Phoenix SecureCore	BIOS based on Phoenix SecureCore
Memory slots	2 DIMM	2 DIMM
Turbo memory	Optional 4 GB	Optional 4 GB
Supported capacity RAM (min.)	1 GB	1 GB
Supported capacity RAM (max.)	4 GB	4 GB
Memory notes	DDR3 - 1066 MHz 8 GB - with future memory models.	DDR3 - 1066 MHz 8 GB - with future memory models.
Interfaces		
Memory card slots	1	1
ExpressCard slots	1	1
PC Card slot (Type I/II)	1	1
SmartCard slot	1	1
SIM card slot	1 (option)	1 (option)
Modem (RJ-11)	1	1 (optional)
USB 2.0 total	4	4
FireWire (IEEE1394)	1	1
Serial (RS-232)	1	1
Parallel	1	1
VGA	1	1
HDMI	1	1
Ethernet (RJ-45)	1	1
DC-in	1	1
Audio: line-in / microphone	1	1
Audio: line-out / headphone	1	1
Internal microphones	2	2
Docking connector for Port Replicator	1	1
Kensington Lock support	2	2
Wired communication		
Modem type	Optional: 56 K V.92 modem MDC1.5	Optional: 56 K V.92 modem MDC1.5
LAN	Built-in 10/100/1000 MBit/s Intel® 82567LM	10/100/1000 MBit/s Intel® 82567LM
Wireless technologies		
Antennas	3 Dual band WLAN antennas, 2 UMTS antenna	3 Dual band WLAN antennas, 2 UMTS antenna
Infrared link (Fast IrDa 1.1, 4 Mbps)	1	1
WLAN notes	Import and usage according to country-specific regulations.	Import and usage according to country-specific regulations.
Keyboard and pointing devices		
	Spill-proof keyboard Number of keyboard keys: 86, Keyboard pitch: 19 mm, Keyboard stroke: 2.7 mm	Spill-proof keyboard Number of keyboard keys: 86, Keyboard pitch: 19 mm, Keyboard stroke: 2.7 mm

Keyboard and pointing devices

TouchStick	TouchStick
TouchPad with two mouse buttons and one scroll button	TouchPad with two mouse buttons and one scroll button
Second set of mouse buttons	Second set of mouse buttons
EcoButton	EcoButton
LockWorkstation button	LockWorkstation button
MobilityCenter button	MobilityCenter button
Optional: Fingerprint sensor	Optional: Fingerprint sensor

Multimedia

Audio type	On board	On board
Audio codec	Realtek ALC269	Realtek ALC269
Audio features	Stereo speakers, 2 internal microphones	Stereo speakers, 2 internal microphones
Camera	Optional: Built-in ConfCamera, 1.3 megapixel, VGA camera	Optional: Built-in ConfCamera, 1.3 megapixel, VGA camera

Graphics

max. resolution external display	1920 x 1200 pixel	1920 x 1200 / true color / 60 Hz
Graphics brand name	NVIDIA® GeForce® 9300M GS	Intel® GMA 4500
Graphic features	DualView (Windows XP & Windows Vista)	DualView (Windows XP & Windows Vista)

Power supply

AC adapter	19 V / 100 W (5.27 A)	19 V / 80 W (4.22 A)
Rated voltage range	100 - 240 V (AC Input)	100 - 240 V (AC Input)
Rated frequency range	50 - 60 Hz	50 - 60 Hz
1st battery	Li-Ion battery 8-cell, 5200 mAh, 74 Wh	Li-Ion battery 8-cell, 5200 mAh, 74 Wh
2nd battery	Li-Ion, 3800 mAh, 41 Wh	Li-Ion, 3800 mAh, 41 Wh
Battery features	Dynamic charge supported (rapid charge)	Dynamic charge supported (rapid charge)
Benchmark	Mobile Mark 2005	Mobile Mark 2005
Runtime 1st battery	up to 5 h	up to 5 h
Runtime 1st + 2nd battery	up to 8.5 h	up to 8.5 h
Battery notes	Disclaimer: Battery life may vary depending on product model, configuration, applications, power management settings and features utilized. Battery recharge time depends on usage.	Disclaimer: Battery life may vary depending on product model, configuration, applications, power management settings and features utilized. Battery recharge time depends on usage.

Power consumption

Power consumption note	see white paper Energy Consumption
Link to Energy White Paper	http://docs.fujitsu-siemens.com/dl.aspx?id=ba456383-5387-4df1-ac75-f6baf24a6e03

Dimensions / Weight / Environmental

Dimension (W x D x H)	357 x 260 x 36 mm	357 x 260 x 36 mm
Weight	2.7 kg	2.7 kg
Weight notes	Weight may vary depending on actual configuration.	Weight may vary depending on actual configuration.
Operating ambient temperature	5 - 35°C	5 - 35°C
Operating relative humidity	20 - 85 % (running)	20 - 85 % (running)

Operating system

Operating system optional preinstalled	Microsoft® Windows Vista® Business 32bit Microsoft® Windows Vista® Home Basic TwinLoad Microsoft® Windows® XP Professional (DVD)	Microsoft® Windows Vista® Business 32bit Microsoft® Windows Vista® Home Basic TwinLoad Microsoft® Windows® XP Professional (DVD)
Operating system compatible	Microsoft® Windows® XP Professional	Microsoft® Windows® XP Professional
Operating system notes	Driver support for Microsoft Windows XP	Driver support for Microsoft Windows XP

Additional Software

Additional software (preinstalled)	Adobe Acrobat Reader Application Panel Display Manager ShockSensor Utility Power Saving Utility Wireless Selector Utility EasyGuide online user documentation Nero Essentials S (CD / DVD write software) Norton Internet Security (incl. Firewall) on Drivers & Utilities DVD for Microsoft Windows XP Toshiba Stack 4.x	Adobe Acrobat Reader Application Panel Display Manager ShockSensor Utility Power Saving Utility Wireless Selector Utility EasyGuide online user documentation Nero Essentials S (CD / DVD write software) Norton Internet Security (incl. Firewall) on Drivers & Utilities DVD for Microsoft Windows XP Toshiba Stack 4.x
Additional software (optional)	Windows Vista® recovery media Drivers & Utilities DVD (DUDVD) UMTS connection manager (optional with UMTS) SmartCase Logon+	Windows Vista® recovery media Drivers & Utilities DVD (DUDVD) UMTS connection manager (optional with UMTS) SmartCase Logon+

Manageability

Manageability features	DeskUpdate Driver management DeskView Migrate (optional) DeskView Control (optional)	DeskUpdate Driver management DeskView Migrate (optional) DeskView Control (optional)
Manageability type	DeskView 10.x client management including:	DeskView 10.x client management including:

Manageability		
DeskView features	On/Offline remote client management Detailed system inventory management and reports BIOS Management Remote power management System notifications Security Remote Control DeskView Helpdesk Integration WoL (Wake on LAN)	On/Offline remote client management Detailed system inventory management and reports BIOS Management Remote power management System notifications Security Remote Control DeskView Helpdesk Integration WoL (Wake on LAN)
Supported standards	WMI PXE	WMI PXE
Manageability link	BootP (made4you) http://www.fujitsu-siemens.com/solutions/it_infrastructure_solutions/manageability/featurefinder.html	BootP (made4you) http://www.fujitsu-siemens.com/solutions/it_infrastructure_solutions/manageability/featurefinder.html
Security		
Physical security	Kensington Lock support	Kensington Lock support
System security	Optional: Trusted platform module (TPM 1.2) Symantec Norton Internet Security (90 day test version)	Optional: Trusted platform module (TPM 1.2) Symantec Norton Internet Security (90 day test version)
User security	Optional: Integrated Fingerprint Sensor Integrated SmartCard controller in PC Card with system lock support Separate SmartCard slot Hard disk password SystemLock BIOS SmartCard security User and supervisor BIOS password	Optional: Integrated Fingerprint Sensor Integrated SmartCard controller in PC Card with system lock support Separate SmartCard slot Hard disk password SystemLock BIOS SmartCard security User and supervisor BIOS password
Compliance		
Europe	CE CE!	
USA/Canada	FCC Class B (Depending on wireless configuration) CSA cUL UL	
Global	RoHS (Restriction of hazardous substances) WEEE (Waste electrical and electronical equipment) Microsoft Operating Systems (HCT / HCL entry / WHQL) WiFi certified Energy Star 4.0 EPEAT Silver	
Compliance link	https://sp.fujitsu-siemens.com/sites/certificates/default.aspx	
Portreplicator interfaces (optional)		
DC-in	1	
Power on switch	1	
Headphones	1	
Audio: microphone in	1	
USB 2.0 total	4	
VGA	1	
DVI	1 (with HDCP Support)	
Serial (RS-232)	1	
Mouse / Keyboard (PS/2)	1	
Ethernet (RJ-45)	1	
Parallel	1	
Kensington Lock support	2	
Warranty		
Standard Warranty	2 years	
Service level	Collect & Return Service / Bring-In Service (depending on country)	
Maintenance and Support Services - the perfect extension		
Recommended Service	3 years, On-site Service	
Spare Parts availability	5 years	
Service Weblink	www.fujitsu-siemens.com/Supportservice	

Information about environmental care, policies, programs and our Environmental Guideline FSC
03230:

<http://www.fujitsu-siemens.com/aboutus>

Take back and Recycling information:

<http://www.fujitsu-siemens.com/recycling>

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